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Growth Factors in Periodontal Regenerative Therapy

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Introduction : Growth factors - A diverse group of polypeptides which have important roles in regulation of growth and development of a variety of organs. The goal of Periodontal therapy is not only to arrest the disease process but also to regenerate the lost Periodontal tissues .

Periodontal regeneration can occur when progenitor periodontal ligament cells migrate to the denuded root surface, attach to it, proliferate and mature into an organized and functional fibrous attachment apparatus. Significant advances have been made during the last decade in understanding the factors controlling the migration, attachment and proliferation of cells.

A group of naturally occurring molecules known as polypeptide growth factors in conjunction with certain matrix proteins are key regulators of these biological events. Of these, the fibroblast growth factors (FGFs), platelet-derived growth factor (PDGF), insulin-like growth factors (IGFs), transforming growth factors (TGFs), epidermal growth factor (EGF) and certain attachment proteins appear to have an important role in periodontal regeneration..

Aim : The aim of the study was to critically evaluate the literature on the role of growth factor in Periodontal Regeneration.

Materials and Method: The search strategy – A literature search for articles published was carried out on using electronic and manual searches. The electronic search included PubMed, Medline, and the Cochrane databases. keywords used were Growth Factors, Regeneration, Review, Platelet derived growth factor, Bone Morphogenetic Protein , Fibroblast growth factor, Emdogain, Transforming growth factor , Periodontal Regeneration.

Results: Human studies suggested that use of growth factor results in greater Periodontal regeneration , healing and bone formation.

Conclusion: Growth factor enhances Periodontal regeneration as can be considered as a treatment regimen for periodontal regenerative therapy .

Biography

Dr. Swet Nisha has completed her Bachelor Of Dental Surgery from West Bengal University Of Health Sciences and presently pursuing Postgraduation In Periodontology & Oral Implantology from J.S.S Dental College & Hospital ,Karnataka,Mysore ,India. She has attended and presented papers at National & International Conferences . She is actively involved in research issues related to field of Periodontology.

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